

PFOA Update Week of 9/6 RA briefing

The announcement on May 19, 2016, of the new health advisory for PFOA and PFOS has raised concern in areas where water supplies were sampled under UCMR, and where they have not. There are backlogs at labs for water testing, and concerns about blood testing capabilities. We have fact sheets available and are attempting to increase lab capacity, but this may be left to the states to certify additional labs. We also expect "NFS. Org" to begin certifying home treatment units in the next 6 months for PFC removal. Currently there are no certified point of use devices tested for PFC removal.

Status of cases in each of our States:

Delaware sites

1)New Castle- All 3 Public water supply wells have treatment installed and back on line. Still working with HSCD to investigate sources including the Air Guard. Three (3) additional Artesian Water Co. wells all remain offline, using other sources for replacement.

2)Dover- Dover Air Force Base water supply wells protected, one home outside of the property above new HA, but not inhabited

Pennsylvania sites-

1)Harrisburg- United Water 1 entry point taken offline at the Airport, system re-worked to eliminate source. Airport 4 wells impacted, installing treatment under DEP permits.

2)Warminster- In the vicinity of the former Naval Air Warfare Center

- 3 Public wells initially offline, 3 additional public wells taken offline in May, with the new Health Advisory, a total 198 private wells have been sampled and 37 are above the new HA. Initial 15 are newly hooked up to public water. Navy has agreed to sample two Northampton public water supply wells at the request of the water supply operator. No data received to date due to lab backlogs and now a QA issue. HSCD is dealing with the potential QA issue by resampling approximately 120 locations sampled in Warminster and Willow Grove areas during June and July, due to field blank contamination. Verifying bottles, DI water and field reagents as possible sources. These are not expected to be impacted but are the closest to the site. The Navy has expended their sampling to cover the Harting area of Warrington, not sure of the source in this area, but they agreed to assist. Otherwise we believe the area is well defined. Warminster public wells 10,13 and 26 treatment systems are under construction with DEP expecting a permit to use by the end of the year.

3)Horsham/ Willow Grove- Naval Air station's 2 on base wells had treatment installed on July 1, they continue pumping to waste until they can get the DEP permit to use. The samples taken in mid- July are Non-detect following GAC treatment. Received sample results from the required source sampling on site. The retention basin for storm water confirmed to have levels up over 4 ppb on PFOA/PFOS, therefore a letter was sent to the Air Guard to expand their area of sampling along the Little Neshaminy Creek, where their surface water discharges, and also investigate control/treatment of the discharge from the storm water basin. In response to our letter to the Air Guard, a meeting was held 8/18/16, with Horsham, PADEP, Aqua PA, Navy and Air Guard representatives to discuss storm water management alternatives. The Navy released additional data showing sampling results and maps of sampling around the perimeter and in storm water discharge areas. They are working up some storage and treatment

alternatives in the next couple weeks. A follow up meeting is planned to walk the site and discuss engineering alternatives. Aqua has offered to engineer some alternatives to capture and treat storm water from both properties in attempts to reduce impacts to the Neshaminy Creek. They have seen what they believe are impacts from the Warminster/ Willow Grove sites on their intakes about 30 miles downstream. They have recent values of 20-30 ppt PFOS in their intake at Neshaminy 30 miles downstream..

Air Guard has submitted sample results for soil and ground water monitoring under the SDWA AO. Values of up to 53,000 ppt have been found in the ground water monitoring wells in proximity to hanger's 201 and 335, both with fire suppression systems using AFFF and both with releases.

Horsham Water System- 2 wells initially offline since June 2014, 3 additional wells taken offline following new HA. DEP permit applications are completed, hope to install treatment on the initial wells by fall.

Warrington- 1 entry point with 3 wells taken offline under PHA, 2 additional wells taken off with new HA. No permits yet approved by PADEP. Warrington passed a resolution August 9th to seek ANG to pay for connection to North Wales Water (NWWA).

Approximately 418 wells sampled in the area through Navy and Air Guard contracts with EPA. Approximately 104 homes on bottled water or getting hook ups.

4) Aqua America – conducted sampling in their well systems in Bucks and Montgomery counties and detected PFOS /PFOA in one well in Hatboro (that has been off line for 2 years) and one well in the Chalfont area. Aqua requested a meeting to share results of monitoring to help them plan their next round of sampling. A meeting is still in the planning stage, September 9th has been proposed.

5) The Doylestown Cross Keys well has been taken off line since the May HA was issued. The PADEP is investigating the vicinity for additional private well impacts. **Ex. 5 Deliberative Process (DP)** but the state is overseeing the sampling of about 200 homes in the vicinity. A meeting is going to be held with PADEP on 8/22/16 to plan communications coordination of various topics HSCD, WPD and DEP program offices will be represented.

Virginia-

1) Fentress Naval base, part of Oceana

2 on-base wells offline, 7 homes/daycare/church provided bottled water.

West Virginia-

1)DuPont- in the Washington Works area covering parts of West Virginia and Ohio-

About 65 homes with GAC treatment, about 50 with hook ups to public water, sampled about 400 locations to date. 8 wells in Vienna newly impacted after HA. DuPont has installed GAC treatment covering wells 11-14 for Vienna. The GAC system is online with initial samples reading below detection we are still waiting confirmations sample results using Method 537. DuPont has agreed to use method 537 for all sampling from here on, but expects it will take longer due to lab capacity. We are also still having discussion with our Lab and ORD regarding DuPont's alternate method- no longer necessary. DuPont has offered resampling and bottled water to 38 homes initially known to be impacted under the new HA. We are awaiting an update of these efforts. Samples have also been taken of the Williamstown,

Marietta and Warren water systems. These are in the expanded area of interest to be covered under the amended Order however, DuPont/ Chemours has already taken samples at these public systems to verify current PFOA concentrations. Results are back for these public water systems and none of their source water exceeds 22 ppt at this time. We are awaiting additional sample validation, for samples run in duplicate using method 537 to verify that these samples will be satisfactory. The only system not previously sampled under UCMR is Williamstown.

An inter connection with Parkersburg is in place serving the southern portion of Vienna until treatment can be installed on their wells 9 & 10.

2) Martinsburg- Sporadic levels of PFOS above the new HA were found in one of the springs and taken offline for further investigation. No additional EPA activities in Martinsburg. The state is conducting an investigation and will be sharing results of their sampling in the area. Still awaiting results, but the ANG is talking to WV about their activities at the nearby airbase,